

# PATENT ABSTRACTS OF JAPAN

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(21)Application number : **2000-240950** (71) **FUJI PHOTO FILM CO LTD**  
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## (54) ORGANIC LUMINESCENT ELEMENT

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide an organic luminescent element enabled to utilize for a surface light source of a full-color display, a back light, an array of a printer light source, or the like, enabled to illuminate in plurality, with high brightness and luminous efficiency, enabled to be manufactured into big size, and easy to manufacture.

**SOLUTION:** The organic luminescent element formed by laminating a transparent electrode, an organic compound layer, and a back face electrode, on a substrate, comprises a hole transport layer with the organic compound layer containing a hole transport material, and a luminous layer containing an ortho- metallized complex and an electron transport material. The state that an electron affinity (Eap) of the hole transport material and an electron affinity (Eae) of the electron transport material fulfils the formula; (Eae)-(Eap) $\geq$ 0.5 eV, the state of the ortho-metallized complex being an iridium complex, the state that the luminous layer contains a host compound, the state that the organic compound is formed by a wet film deposition method, or the like, are preferable.